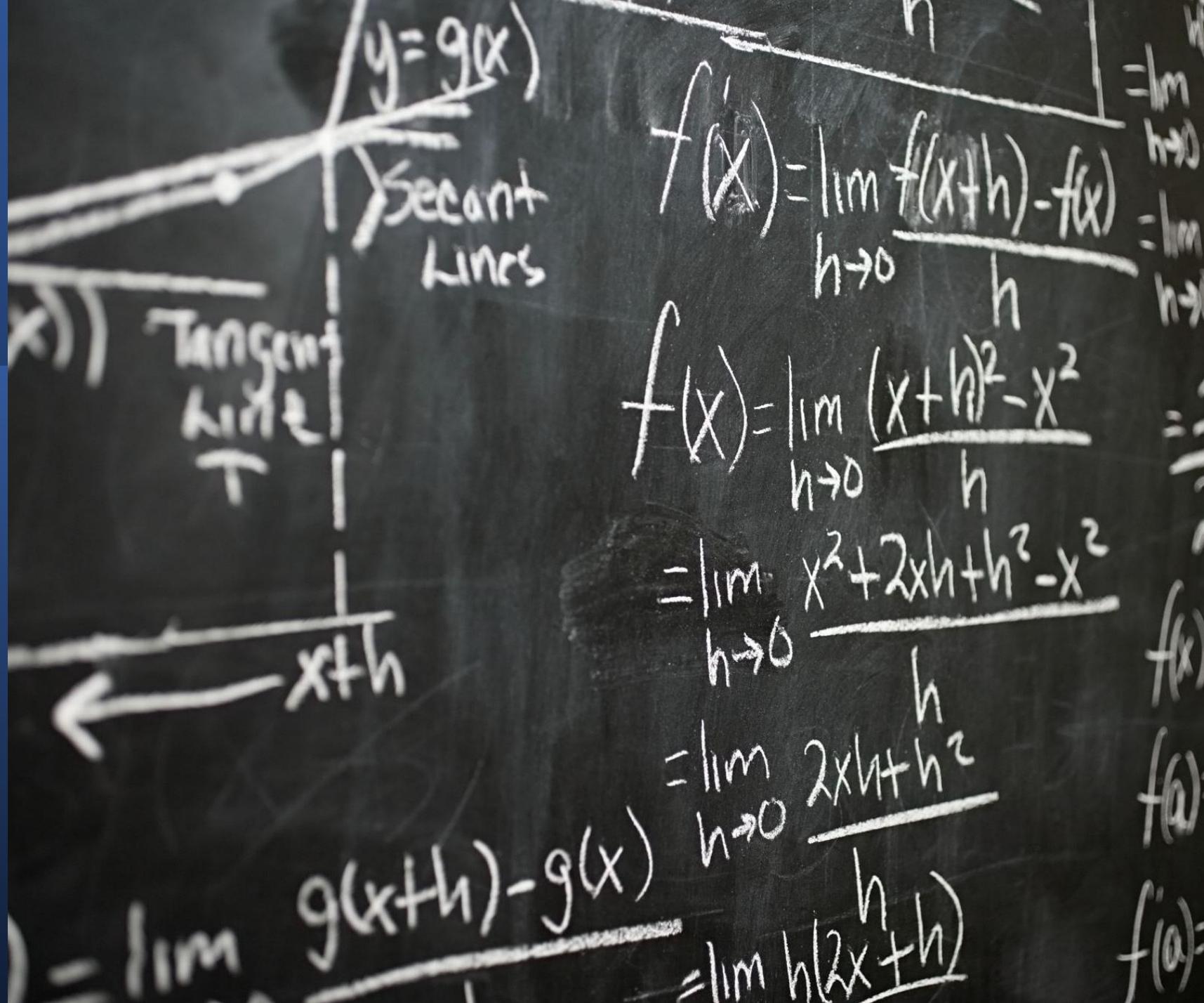


Friday, November 4,
2022

MATH Equity Data



Preliminary questions

- Do you know the overall MATH course success equity gap between Mt SAC's two largest race/ethnic groups (Latinx and Asian)? And, between Asian and Black/African American?
 - 23.9%; 34.9%
- How many have seen his/her/their own course-level disaggregated data?
- What effective strategies have you used to close the equity gaps?

Course Success Data (EW included)

- MATH 100: Survey of College Math
- MATH 110: Elementary Statistics
- MATH 11
- MATH 130: College Algebra
- MATH 13
- MATH 150: Trigonometry
- MATH 15
- MATH 16: Support for Pre-Calculus
- MATH 18A & B: Support for Calculus I & II

MATH 100

Survey of College Math

EW
included

Academic Year	2017-2018		2018-2019		2019-2020		2020-2021		2021-2022	
Ethnicity + Gender	Enrollments	Success Rates								
Asian	10	40.0%	7	100.0%	7	57.1%	29	75.9%	63	69.8%
F	3	100.0%	3	100.0%	4	50.0%	18	66.7%	19	73.7%
M	7	14.3%	4	100.0%	3	66.7%	11	90.9%	43	67.4%
N									1	100.0%
Black or African American			1	100.0%	2	100.0%	13	61.5%	16	25.0%
F			1	100.0%	1	100.0%	4	75.0%	7	28.6%
M					1	100.0%	9	55.6%	7	28.6%
N									2	0.0%
Hispanic, Latino	17	35.3%	20	65.0%	47	51.1%	143	42.0%	279	49.5%
F	5	80.0%	11	54.5%	27	48.1%	79	43.0%	145	52.4%
M	11	9.1%	8	87.5%	17	58.8%	63	41.3%	126	43.7%
N	1	100.0%	1	0.0%	3	33.3%	1	0.0%	8	87.5%
Native Hawaiian or Other Pacific Islander									1	100.0%
M									1	100.0%
Two or More Races					1	100.0%	5	40.0%	10	70.0%
F					1	100.0%	2	0.0%	1	100.0%
M							2	50.0%	8	62.5%
N							1	100.0%	1	100.0%
White	4	50.0%	8	50.0%	13	53.8%	27	66.7%	29	58.6%
F	1	0.0%	4	50.0%	6	66.7%	11	63.6%	8	75.0%
M	3	66.7%	4	50.0%	7	42.9%	16	68.8%	19	47.4%
N									2	100.0%
Total	31	38.7%	36	69.4%	70	54.3%	217	50.7%	398	53.0%

MATH 110 Elementary Statistics EW included

Academic Year Ethnicity + Gender	2017-2018		2018-2019		2019-2020		2020-2021		2021-2022	
	Enrollments	Success Rates								
American Indian or Alaska Native	2	100.0%	3	100.0%	6	16.7%	5	60.0%	4	75.0%
F	1	100.0%	2	100.0%	6	16.7%	5	60.0%	2	100.0%
M	1	100.0%	1	100.0%					2	50.0%
Asian	872	75.3%	870	75.4%	1,054	74.1%	1,093	75.7%	851	71.4%
F	459	77.8%	444	76.4%	543	80.5%	567	79.5%	411	76.4%
M	403	72.5%	414	73.9%	497	67.6%	507	71.4%	417	66.7%
N	10	80.0%	12	91.7%	14	57.1%	19	73.7%	23	69.6%
Black or African American	74	48.6%	114	50.9%	200	38.5%	224	40.2%	200	31.5%
F	39	53.8%	65	58.5%	101	44.6%	136	39.7%	95	33.7%
M	32	46.9%	47	40.4%	93	32.3%	84	40.5%	100	30.0%
N	3	0.0%	2	50.0%	6	33.3%	4	50.0%	5	20.0%
Hispanic, Latino	2,020	54.9%	2,536	56.3%	3,626	48.6%	3,981	49.2%	3,128	42.0%
F	1,207	55.8%	1,514	55.9%	2,167	49.9%	2,554	49.9%	1,947	40.3%
M	787	53.9%	982	56.4%	1,409	46.5%	1,385	48.1%	1,134	45.2%
N	26	42.3%	40	70.0%	50	54.0%	42	40.5%	47	38.3%
Native Hawaiian or Other Pacific Islander	9	66.7%	10	40.0%	15	40.0%	22	31.8%	12	41.7%
F	7	71.4%	3	33.3%	7	28.6%	15	26.7%	5	40.0%
M	2	50.0%	7	42.9%	8	50.0%	7	42.9%	7	42.9%
Two or More Races	123	61.0%	107	56.1%	156	44.9%	193	48.7%	153	44.4%
F	68	60.3%	65	61.5%	87	44.8%	105	52.4%	76	44.7%
M	53	64.2%	42	47.6%	67	44.8%	80	45.0%	72	43.1%
N	2	0.0%			2	50.0%	8	37.5%	5	60.0%
Unreported	4	100.0%	3	33.3%	1	0.0%	1	0.0%		
White	285	64.9%	358	70.7%	403	57.6%	457	60.0%	417	52.3%
F	154	66.9%	199	72.4%	228	62.3%	258	58.5%	223	52.5%
M	122	60.7%	153	68.6%	164	52.4%	188	62.2%	188	52.1%
N	9	88.9%	6	66.7%	11	36.4%	11	54.5%	6	50.0%
Total	3,389	61.2%	4,001	61.6%	5,461	53.7%	5,976	54.4%	4,765	47.8%

MATH 11

Support Topics for Statistics EW included

Academic Year Ethnicity + Gender	2019-2020		2020-2021		2021-2022	
	Enrollments	Success Rates	Enrollments	Success Rates	Enrollments	Success Rates
☒ American Indian or Alaska Native			2	50.0%	1	0.0%
F			2	50.0%		
M					1	0.0%
☒ Asian	109	68.8%	190	70.5%	169	76.3%
F	63	74.6%	103	76.7%	88	80.7%
M	44	61.4%	81	63.0%	75	73.3%
N	2	50.0%	6	66.7%	6	50.0%
☒ Black or African American	35	37.1%	52	36.5%	54	29.6%
F	13	53.8%	29	37.9%	30	30.0%
M	21	28.6%	21	33.3%	23	30.4%
N	1	0.0%	2	50.0%	1	0.0%
☒ Hispanic, Latino	732	52.2%	992	49.8%	837	53.6%
F	485	54.4%	660	51.8%	526	54.9%
M	233	47.6%	322	45.7%	299	51.8%
N	14	50.0%	10	50.0%	12	41.7%
☒ Native Hawaiian or Other Pacific Islander			4	25.0%	4	75.0%
F			3	0.0%	3	66.7%
M			1	100.0%	1	100.0%
☒ Two or More Races	28	28.6%	35	45.7%	39	59.0%
F	18	33.3%	22	45.5%	23	60.9%
M	10	20.0%	9	33.3%	15	53.3%
N			4	75.0%	1	100.0%
☒ White	70	55.7%	101	55.4%	96	58.3%
F	48	60.4%	72	54.2%	55	58.2%
M	22	45.5%	29	58.6%	38	60.5%
N					3	33.3%
Total	974	53.1%	1,376	52.4%	1,200	56.3%

MATH 130

College Algebra

EW included

Academic Year	2017-2018		2018-2019		2019-2020		2020-2021		2021-2022	
Ethnicity + Gender	Enrollments	Success Rates								
American Indian or Alaska Native	3	100.0%	1	0.0%	1	100.0%	1	0.0%		
F	2	100.0%	1	0.0%						
M	1	100.0%			1	100.0%	1	0.0%		
Asian	402	61.2%	351	62.1%	312	65.1%	258	62.8%	214	63.6%
F	164	62.8%	156	66.7%	141	73.8%	136	66.9%	96	67.7%
M	234	60.3%	191	58.6%	166	56.6%	118	58.5%	115	60.0%
N	4	50.0%	4	50.0%	5	100.0%	4	50.0%	3	66.7%
Black or African American	53	39.6%	74	35.1%	78	33.3%	71	32.4%	51	33.3%
F	15	53.3%	25	36.0%	39	43.6%	36	38.9%	25	36.0%
M	38	34.2%	49	34.7%	37	24.3%	34	23.5%	26	30.8%
N					2	0.0%	1	100.0%		
Hispanic, Latino	1,054	45.0%	989	43.3%	1,168	39.4%	938	42.9%	786	41.7%
F	535	46.5%	521	42.8%	631	39.6%	514	44.9%	423	38.1%
M	505	43.6%	446	43.0%	524	38.9%	413	40.4%	359	45.7%
N	14	35.7%	22	59.1%	13	46.2%	11	36.4%	4	75.0%
Native Hawaiian or Other Pacific Islander	18	33.3%	14	35.7%	10	40.0%	7	14.3%	2	0.0%
F	3	33.3%	3	0.0%	3	0.0%	1	0.0%		
M	15	33.3%	11	45.5%	7	57.1%	6	16.7%	2	0.0%
Two or More Races	56	48.2%	56	60.7%	76	44.7%	47	48.9%	44	40.9%
F	19	68.4%	22	59.1%	36	47.2%	28	50.0%	16	50.0%
M	35	34.3%	33	60.6%	40	42.5%	18	44.4%	27	37.0%
N	2	100.0%	1	100.0%			1	100.0%	1	0.0%
Unreported	5	60.0%	1	0.0%						
White	156	48.7%	158	50.6%	144	54.9%	143	42.0%	109	42.2%
F	55	58.2%	76	51.3%	72	52.8%	69	43.5%	43	39.5%
M	98	42.9%	80	51.3%	69	55.1%	69	40.6%	62	41.9%
N	3	66.7%	2	0.0%	3	100.0%	5	40.0%	4	75.0%
Total	1,747	49.0%	1,644	48.1%	1,789	45.1%	1,465	45.8%	1,206	45.2%

MATH 13

Support Topics
for College
Algebra
EW included

Academic Year	2018-2019		2019-2020		2020-2021		2021-2022	
Ethnicity + Gender	Enrollments	Success Rates						
☒ American Indian or Alaska Native			1	0.0%	1	0.0%		
M			1	0.0%	1	0.0%		
☒ Asian	59	67.8%	50	54.0%	60	63.3%	45	75.6%
F	25	64.0%	26	53.8%	30	66.7%	20	65.0%
M	33	69.7%	23	52.2%	30	60.0%	25	84.0%
N	1	100.0%	1	100.0%				
☒ Black or African American	19	42.1%	22	22.7%	11	27.3%	8	25.0%
F	9	44.4%	13	30.8%	6	33.3%	7	28.6%
M	10	40.0%	8	12.5%	5	20.0%	1	0.0%
N			1	0.0%				
☒ Hispanic, Latino	219	50.7%	256	35.2%	225	43.1%	169	59.8%
F	121	49.6%	146	39.0%	122	45.9%	90	56.7%
M	94	52.1%	107	29.9%	103	39.8%	77	63.6%
N	4	50.0%	3	33.3%			2	50.0%
☒ Native Hawaiian or Other Pacific Islander	5	40.0%			4	25.0%	1	0.0%
M	5	40.0%			4	25.0%	1	0.0%
☒ Two or More Races	15	53.3%	15	40.0%	8	50.0%	7	28.6%
F	6	33.3%	9	55.6%	4	50.0%	2	0.0%
M	9	66.7%	6	16.7%	4	50.0%	5	40.0%
☒ Unreported	1	0.0%						
☒ White	19	52.6%	32	50.0%	30	43.3%	11	54.5%
F	7	71.4%	18	55.6%	19	52.6%	7	57.1%
M	12	41.7%	12	33.3%	11	27.3%	2	0.0%
N			2	100.0%			2	100.0%
Total	337	53.1%	376	38.3%	339	46.0%	241	60.2%

MATH 150

Trigonometry
EW included

Academic Year	2017-2018		2018-2019		2019-2020		2020-2021		2021-2022	
Ethnicity + Gender	Enrollments	Success Rates	Enrollments	Success Rates	Enrollments	Success Rates	Enrollments	Success Rates	Enrollments	Success Rates
<input type="checkbox"/> American Indian or Alaska Native	1	100.0%	4	25.0%	6	33.3%	3	33.3%	1	0.0%
F			3	33.3%	3	66.7%	1	0.0%	1	0.0%
M	1	100.0%	1	0.0%	3	0.0%	2	50.0%		
<input type="checkbox"/> Asian	221	60.6%	232	62.5%	366	65.0%	438	72.6%	313	63.9%
F	70	58.6%	80	70.0%	101	67.3%	167	79.6%	92	69.6%
M	143	62.2%	145	57.9%	260	64.2%	263	68.8%	211	62.1%
N	8	50.0%	7	71.4%	5	60.0%	8	50.0%	10	50.0%
<input type="checkbox"/> Black or African American	16	62.5%	30	33.3%	36	33.3%	40	25.0%	42	26.2%
F	2	50.0%	14	35.7%	11	54.5%	15	33.3%	10	50.0%
M	14	64.3%	16	31.3%	25	24.0%	24	20.8%	30	20.0%
N							1	0.0%	2	0.0%
<input type="checkbox"/> Hispanic, Latino	534	49.3%	637	51.8%	882	33.7%	930	45.7%	794	40.3%
F	193	44.0%	255	49.8%	336	36.6%	371	50.1%	333	40.2%
M	335	52.5%	368	52.7%	534	31.6%	546	42.7%	444	40.1%
N	6	33.3%	14	64.3%	12	41.7%	13	46.2%	17	47.1%
<input type="checkbox"/> Native Hawaiian or Other Pacific Islander	3	0.0%	5	60.0%	1	100.0%	3	66.7%	3	33.3%
F	2	0.0%	2	50.0%					1	0.0%
M	1	0.0%	3	66.7%	1	100.0%	3	66.7%	2	50.0%
<input type="checkbox"/> Two or More Races	29	55.2%	25	56.0%	51	45.1%	42	45.2%	36	47.2%
F	7	71.4%	14	64.3%	23	43.5%	18	50.0%	12	58.3%
M	20	55.0%	10	40.0%	27	44.4%	24	41.7%	24	41.7%
N	2	0.0%	1	100.0%	1	100.0%				
<input type="checkbox"/> Unreported	1	100.0%								
<input type="checkbox"/> White	118	57.6%	110	61.8%	130	50.0%	115	58.3%	95	48.4%
F	47	61.7%	35	48.6%	51	58.8%	39	51.3%	35	57.1%
M	69	53.6%	74	68.9%	76	43.4%	72	61.1%	59	44.1%
N	2	100.0%	1	0.0%	3	66.7%	4	75.0%	1	0.0%
Total	923	53.4%	1,043	54.7%	1,472	43.3%	1,571	53.6%	1,284	46.3%

MATH 15

Support Topics for
Trigonometry
EW included

Academic Year	2019-2020		2020-2021		2021-2022	
	Enrollments	Success Rates	Enrollments	Success Rates	Enrollments	Success Rates
☐ American Indian or Alaska Native	2	100.0%	1	0.0%		
F	1	100.0%				
M	1	100.0%	1	0.0%		
☐ Asian	52	67.3%	103	72.8%	55	52.7%
F	14	78.6%	35	80.0%	15	66.7%
M	37	62.2%	66	69.7%	37	48.6%
N	1	100.0%	2	50.0%	3	33.3%
☐ Black or African American	10	50.0%	17	11.8%	9	55.6%
F	4	75.0%	6	0.0%	2	50.0%
M	6	33.3%	10	20.0%	7	57.1%
N			1	0.0%		
☐ Hispanic, Latino	199	49.7%	263	43.3%	167	33.5%
F	77	53.2%	96	49.0%	61	45.9%
M	120	48.3%	162	39.5%	104	26.9%
N	2	0.0%	5	60.0%	2	0.0%
☐ Native Hawaiian or Other Pacific Islander			2	50.0%		
M			2	50.0%		
☐ Two or More Races	10	60.0%	9	22.2%	7	28.6%
F	5	60.0%	4	0.0%	2	100.0%
M	4	50.0%	5	40.0%	5	0.0%
N	1	100.0%				
☐ White	24	75.0%	32	53.1%	18	55.6%
F	14	78.6%	12	41.7%	6	83.3%
M	10	70.0%	19	63.2%	11	45.5%
N			1	0.0%	1	0.0%
Total	297	55.6%	427	49.4%	256	39.8%

MATH 16

Support Topics for
Precalculus EW
included

Academic Year Ethnicity + Gender	2019-2020		2020-2021		2021-2022	
	Enrollments	Success Rates	Enrollments	Success Rates	Enrollments	Success Rates
Asian	78	70.5%	96	67.7%	82	64.6%
F	21	76.2%	37	75.7%	28	67.9%
M	57	68.4%	58	63.8%	54	63.0%
N			1	0.0%		
Black or African American	8	25.0%	4	75.0%	3	33.3%
F	7	28.6%	2	100.0%		
M	1	0.0%	2	50.0%	3	33.3%
Hispanic, Latino	190	52.1%	165	52.7%	133	44.4%
F	53	64.2%	63	58.7%	59	40.7%
M	132	47.0%	101	48.5%	71	49.3%
N	5	60.0%	1	100.0%	3	0.0%
Native Hawaiian or Other Pacific Islander	1	0.0%	1	100.0%	1	100.0%
F			1	100.0%		
M	1	0.0%			1	100.0%
Two or More Races	10	70.0%	7	85.7%	8	25.0%
F	3	33.3%	2	100.0%	2	0.0%
M	5	80.0%	5	80.0%	5	20.0%
N	2	100.0%			1	100.0%
White	17	52.9%	31	64.5%	18	38.9%
F	5	20.0%	9	55.6%	7	71.4%
M	12	66.7%	22	68.2%	10	10.0%
N					1	100.0%
Total	304	56.6%	304	59.9%	245	50.2%

MATH 18A & 18B, EW included

Support Topics for Calculus I & II

Academic Year	2021-2022	
Ethnicity + Gender	Enrollments	Success Rates
Asian	54	64.8%
F	18	38.9%
M	36	77.8%
Black or African American	2	0.0%
M	2	0.0%
Hispanic, Latino	51	43.1%
F	12	25.0%
M	38	50.0%
N	1	0.0%
Two or More Races	1	100.0%
M	1	100.0%
White	7	57.1%
M	7	57.1%
Total	115	53.9%

Academic Year	2021-2022	
Ethnicity + Gender	Enrollments	Success Rates
American Indian or Alaska Native	1	0.0%
M	1	0.0%
Asian	184	63.0%
F	68	76.5%
M	116	55.2%
Black or African American	3	66.7%
M	3	66.7%
Hispanic, Latino	159	37.1%
F	60	33.3%
M	98	38.8%
N	1	100.0%
Two or More Races	11	72.7%
F	3	100.0%
M	8	62.5%
White	29	41.4%
F	7	28.6%
M	22	45.5%
Total	387	50.9%

Spring 2022 Target MATH Course Success by CRSID

CRSID	COREQ	Enrolled Count	Success Count	Success Percentage	Withdrawal Count	Withdrawal Percentage
MATH100	NO CRQ	123	65	52.8%	21	17.1%
MATH110	NO CRQ	1202	525	43.7%	319	26.5%
MATH110	MATH11	446	201	45.1%	111	24.9%
MATH110H	NO CRQ	42	35	83.3%	4	9.5%
MATH130	NO CRQ	375	154	41.1%	118	31.5%
MATH130	MATH13	80	59	73.8%	11	13.8%
MATH140	NO CRQ	86	36	41.9%	34	39.5%
MATH150	NO CRQ	332	164	49.4%	71	21.4%
MATH150	MATH15	83	25	30.1%	38	45.8%
MATH160	NO CRQ	206	117	56.8%	37	18.0%
MATH160	MATH16	92	44	47.8%	24	26.1%
MATH180	NO CRQ	214	73	34.1%	64	29.9%
MATH180	MATH18A	210	92	43.8%	53	25.2%
Grand Total		3491	1590	45.5%	905	25.9%

Spring 2022 Target MATH Course Success by Ethnicity					
Ethnicity	Enrolled Count	Success Count	Success Percentage	Withdrawal Count	Withdrawal Percentage
American Indian or Alaska Native	1	0	0.00%	1	100.00%
Asian	788	501	63.58%	126	15.99%
Black or African American	123	37	30.08%	48	39.02%
Hispanic, Latino	2171	861	39.66%	624	28.74%
Native Hawaiian or Other Pacific Islander	8	3	37.50%	4	50.00%
Two or More Races	99	44	44.44%	24	24.24%
White	301	144	47.84%	78	25.91%
Grand Total	3491	1590	45.55%	905	25.92%

Spring 2022 Target MATH Course Success by Gender					
Gender	Enrolled Count	Success Count	Success Percentage	Withdrawal Count	Withdrawal Percentage
Female	1660	731	44.04%	452	27.23%
Male	1774	829	46.73%	439	24.75%
Unknown	57	30	52.63%	14	24.56%
Grand Total	3491	1590	45.55%	905	25.92%

Fall 2021 Target MATH Course Success by CRSID		Success Rate			Withdrawal Rate	
CRSID	COREQ	Enrolled #	Success #	Success Rate	Withdrawal #	Withdrawal %
MATH100	NO CRQ	209	105	50.2%	39	18.7%
MATH110	NO CRQ	1428	602	42.2%	394	27.6%
MATH110	MATH11	644	314	48.8%	134	20.8%
MATH110H	NO CRQ	37	26	70.3%	7	18.9%
MATH120	NO CRQ	30	13	43.3%	9	30.0%
MATH130	NO CRQ	432	137	31.7%	174	40.3%
MATH130	MATH13	128	77	60.2%	21	16.4%
MATH140	NO CRQ	77	33	42.9%	28	36.4%
MATH140	MATH14	10	7	70.0%	1	10.0%
MATH150	NO CRQ	460	231	50.2%	107	23.3%
MATH150	MATH15	140	35	25.0%	33	23.6%
MATH160	NO CRQ	205	73	35.6%	57	27.8%
MATH160	MATH16	113	41	36.3%	39	34.5%
MATH180	NO CRQ	456	222	48.7%	126	27.6%
MATH180	MATH18A	178	73	41.0%	45	25.3%
MATH50	NO CRQ	93	50	53.8%	18	19.4%
MATH51	NO CRQ	152	62	40.8%	56	36.8%
MATH51	MATH5	50	22	44.0%	8	16.0%
MATH71	NO CRQ	481	156	32.4%	155	32.2%
MATH71	MATH7	302	143	47.4%	71	23.5%
MATH71A	NO CRQ	89	34	38.2%	36	40.4%
MATH71B	NO CRQ	31	11	35.5%	10	32.3%
Grand Total		5745	2467	42.9%	1568	27.3%

Fall 2021 Target MATH Course Success by Gender	Success Rate			Withdrawal Rate	
	Gender	Enrolled #	Success #	Success %	Withdrawal #
Female	2894	1231	42.5%	824	28.5%
Male	2768	1195	43.2%	728	26.3%
Unknown	83	41	49.4%	16	19.3%
Grand Total	5745	2467	42.9%	1568	27.3%

Fall 2021 Target MATH Course Success by Ethnicity	Success Rate			Withdrawal Rate	
	Gender	Enrolled #	Success #	Success %	Withdrawal #
American Indian or Alaska Native	2	1	50.0%	1	50.0%
Asian	1140	703	61.7%	209	18.3%
Black or African American	182	57	31.3%	62	34.1%
Hispanic, Latino	3708	1380	37.2%	1091	29.4%
Native Hawaiian or Other Pacific Islander	11	4	36.4%	6	54.5%
Two or More Races	187	84	44.9%	44	23.5%
White	515	238	46.2%	155	30.1%
Grand Total	5745	2467	42.9%	1568	27.3%

Fall 2021 Target MATH Course Success by AQ Placement	Success Rate			Withdrawal Rate	
	Placement Eligibility	Enrolled #	Success #	Success %	Withdrawal #
By AQ*	3697	1588	43.0%	982	26.6%
Not AQ	2048	879	42.9%	586	28.6%
Grand Total	5745	2467	42.9%	1568	27.3%

* Enrolled course matched with student's AQ placement



Discussion



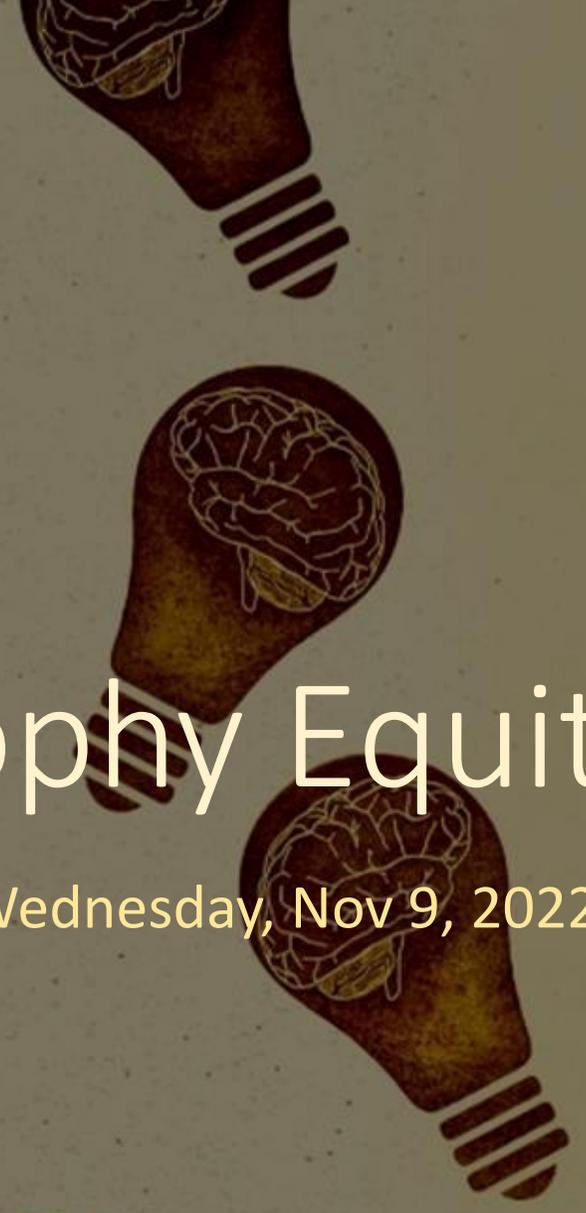
Were there any surprising data?



Do you see trends?



Why do you think some co-requisite courses are more helpful than others?



Philosophy Equity Data

Wednesday, Nov 9, 2022

Philosophy



What is Data Coaching?

BACKGROUND

- Title V: “Developing Hispanic-Serving Institutions Program”
- Grant: “Creating an Equity-Minded Campus Culture to Improve Student Outcomes”

OUR GOALS

- Provide peer-to-peer support on using data to improve teaching practices
- Improve campus-wide cultural competence and cross-cultural dialogue

OUR FUNCTIONS

- Access, understand, and use data
- To measure the impact of pedagogies on student outcomes

Framework for Data Literacy



Ensuring Access to Data



Making Meaning from Data



Clarifying Expectations for Data Use



Building Knowledge and Skills to Use Data



Leading a Culture of Data Use

Data Disaggregated by Race & Ethnicity

- Defining Enrollment Grades, Success Rate, and Retention Rate
- Student Demographics: Mt SAC vs Division vs Department (2021-22)
- Course Success Rate: Mt SAC, Division, Departments (2021-22)
- Course Retention Rate: Mt SAC, Division, Departments (2021-22)
- Concluding Observations
- DEISA POD programs

ENROLLMENT GRADES, SUCCESS RATE, AND RETENTION RATE

Enrollment Grades

A = Received a letter grade of "A"
B = Received a letter grade of "B"
C = Received a letter grade of "C"
D = Received a letter grade of "D"
F = Failing (in a letter graded course)
P = Pass
NP = No Pass
I* = Incomplete where "*" indicates the default grade to be received by the student if the incomplete is not completed within one year.
IPP = Incomplete Pass
INP = Incomplete No Pass
FW = Withdrawn without permission & without having achieved a final pass grade
W = Withdrew (after last day to drop)
DR = Drop, on or after first census date and before withdraw date
EW = Excused Withdrawal
MW = Military Withdrawal

Success Rate Formula

Success rate
including students
who received EW

of students receiving A, B, C, P, IA, IB, IC, IPP

=

Total course enrollment + EW

Retention Rate Formula

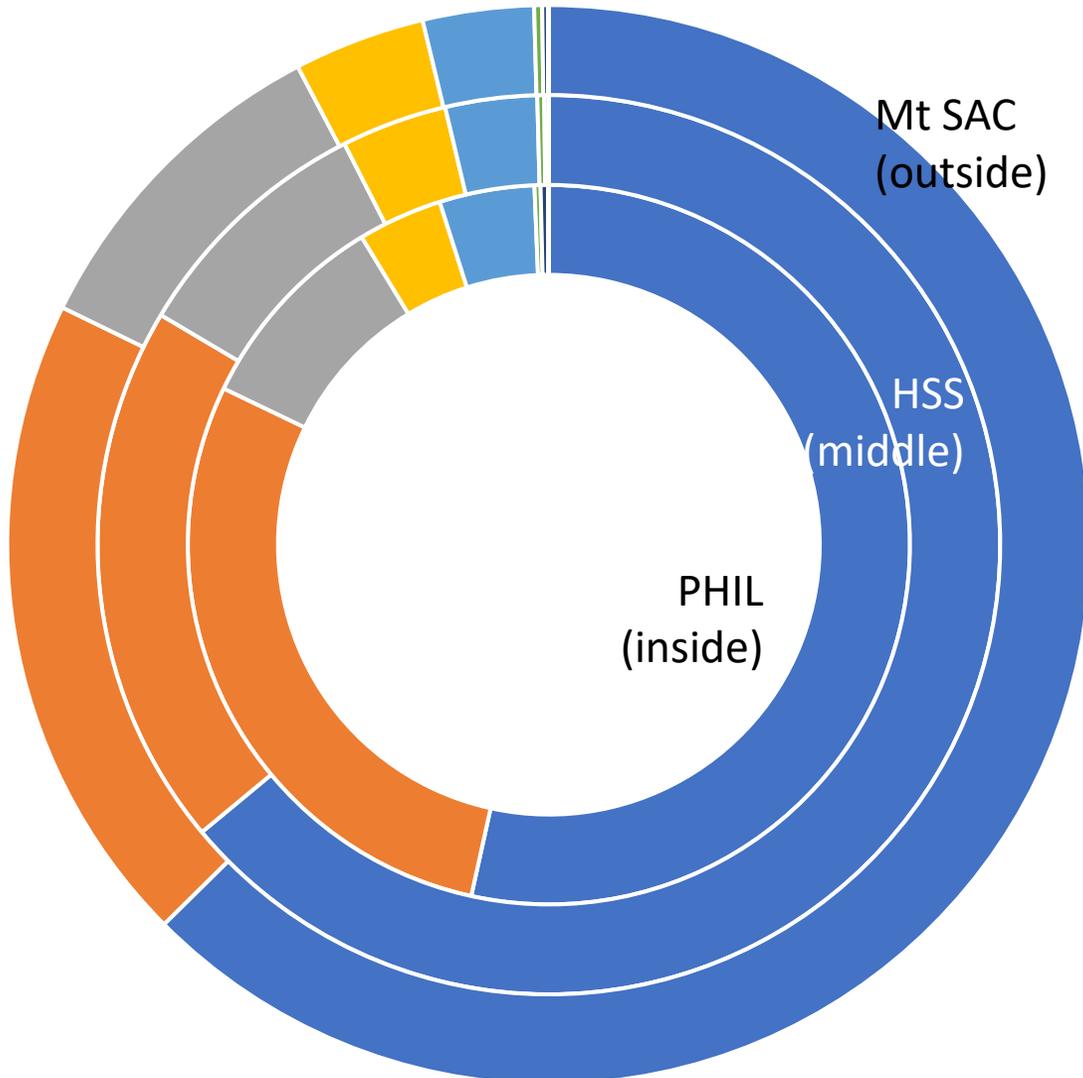
Retention rate
including students
who received EW

of students receiving A, B, C, D, F, P, NP, I*, IPP, INP

=

Total course enrollment + EW

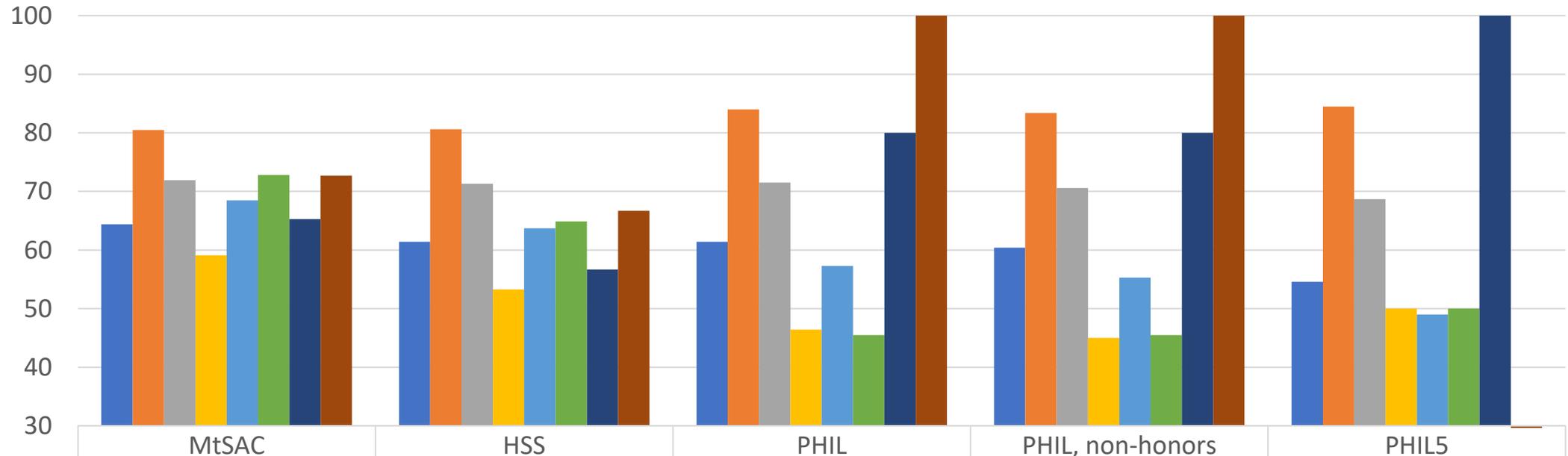
2021-22 HEADCOUNT PHIL vs. HSS vs. Mt SAC



	PHIL		HSS		Mt SAC	
Latinx	1596	53.45%	15329	63.96%	22893	62.58%
Asian	857	28.70%	4690	19.57%	7193	19.66%
White	274	9.18%	2154	8.99%	3689	10.08%
Black/Af-Am	113	3.78%	908	3.79%	1436	3.93%
Two or More	127	4.25%	787	3.28%	1212	3.31%
NaHawaiian/ Other Pac Is	8	0.27%	59	0.25%	87	0.24%
Am Indian/Alaska Native	10	0.33%	36	0.15%	62	0.17%
Unreported	1	0.03%	3	0.01%	10	0.03%
Total	2986		23966		36582	

2021-22 Course Success Rate Comparison

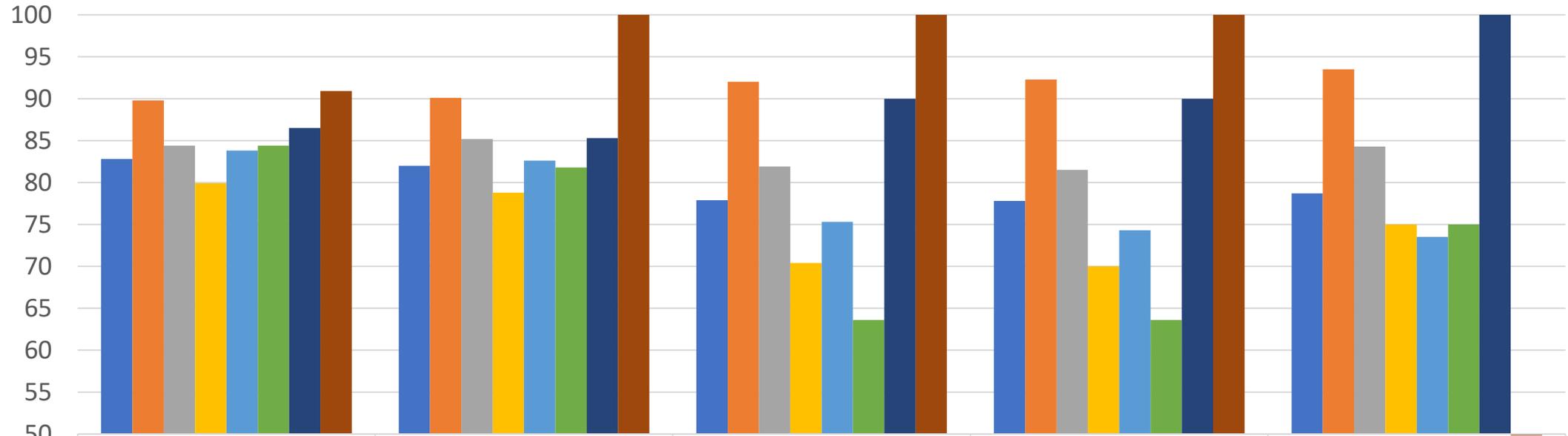
Y-axis adjusted to display from 30% to 100%



Latinx	64.4	16.1	61.4	19.2	61.4	22.6	60.4	23	54.6	29.9
Asian	80.5	16.1	80.6	19.2	84	22.6	83.4	23	84.5	29.9
White	71.9		71.3		71.5		70.6		68.7	
Black/Af-Am	59.1	21.4	53.3	27.3	46.4	37.6	45	38.4	50	34.5
Two or More	68.5		63.7		57.3		55.3		49	
Am Indian/Alaska Native	72.8		64.9		45.5		45.5		50	
NaHawaiian/Other Pac Is	65.3		56.7		80		80		100	
Unreported	72.7		NA		100		100		0	

2021-22 Course Retention Rate Comparison

Y-axis adjusted to display from 50% to 100%



Latinx	82.8	7	82	8.1	77.9	14.1	77.8	14.5	78.7	14.8
Asian	89.8		90.1		92		92.3		93.5	
White	84.4		85.2		81.9		81.5		84.3	
Black/Af-Am	79.9	9.9	78.8	11.3	70.4	21.6	70	22.3	75	18.5
Two or More	83.8		82.6		75.3		74.3		73.5	
Am Indian/Alaska Native	84.4		81.8		63.6		63.6		75	
NaHawaiian/Other Pac Is	86.5		85.3		90		90		100	
Unreported	90.9		100		100		100		0	

Conclusion & Discussion

- The racial equity gaps of students' success rates between Latinx and Asian in PHIL courses are larger in comparison with those of Mt SAC, and even larger when considering non-honors PHIL courses.

Q: What are some strategies PHIL faculty have implemented to close the equity gaps?

DEISA Professional Development Programs Team CoCo

- Community of Collaboration
- Employ specific equity directed tasks in classrooms
- Gather reflections on equity experiences
 - How do we create an environment where our students can perform?
 - How can we address what students bring to our class?
 - How do we build relationships with our students?
- Fridays @ 11:00-12:30PM
 - Friday, December 2nd: Jam Session with Cohort
- [Zoom Meeting Link](#)
- Planning Duo: Alejandra Pulido & Michelle Nava
- Get \$!!!



The graphic features a light beige background with decorative elements like a red swirl and a brown circle with a white dot in the top left, and a brown circle with a white dot in the top right. The title 'Community of Collaboration' is written in a large, orange, cursive font. Below it, 'Fall 2022 Schedule' is written in a smaller, blue, sans-serif font. The schedule is presented as a vertical list of five colored boxes, each containing a date, topic, and speaker. To the left of the schedule, there are two illustrations: one showing three people (two men and one woman) looking at a computer screen, and another showing three people (two men and one woman) celebrating with their hands raised. At the bottom, the text 'Fridays @ 11:00 - 12:30 P.M.' is written in a bold, blue, sans-serif font.

Community of Collaboration

Fall 2022 Schedule

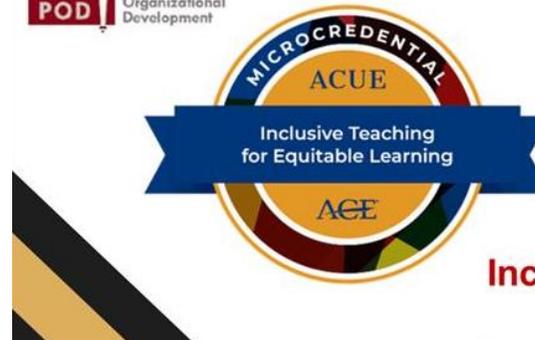
- August 16**
Equitable Syllabus Policies Cohort
- September 2**
Equity Minded Curriculum Convening
Dianne Rowley & Tiffany Kuo
- September 23**
Data & Equity
Marcell Gilmore
- October 7**
Making Canvas Inviting & Effective
Jason McFaul
- October 21**
DEISA
Dr. Mica Stewart
- December 2**
Jam Session Cohort

Fridays @ 11:00 - 12:30 P.M.

DEISA Professional Development Programs

ACUE ITEL

- Inclusive Teaching for Equitable Learning
- 10-week, 5-module course
 - Implicit Bias
 - Microaggressions
 - Stereotype Threat
 - Imposter Phenomenon
- Gain proven strategies to create a more equitable and just learning environment
- Pending 20 hours towards PGI/PGH
- Think about a ATT cohort for Spring 2023



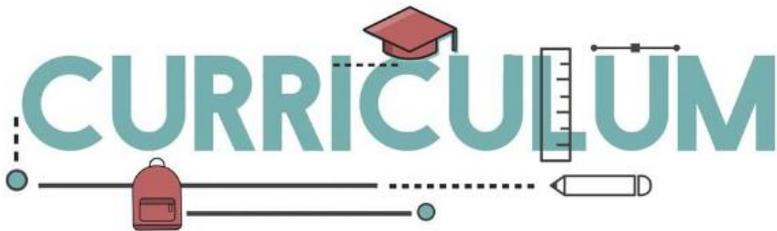
Inclusive Teaching for Equitable Learning (ITEL)

DEISA Professional Development Programs

EMCC

- **Equity-Minded Curricular Convening, aka Curriculum Development Workshops for Equity**

- Revise or develop a new course outline of record [COR] in 13 weeks
- Equitize the COR with colleagues
 - Know your baseline: course-level disaggregated data
 - Exploring textbooks and course materials
 - Achieve equitable outcomes (Fink's significant learning outcomes)
 - Inclusive teaching practices
 - Academic support, key services, and specialized student support
 - Viewing catalog description and course topics through a DEISA lens
- ~20 hours of non-instructional \$ to participate in 7 workshops
- Consider working on your 5-year course review for Spring 2023
- Dianne Rowley, curriculum liaison & Tiffany Kuo, data coach coordinator



Save the date

January 24-25, 2023

8:30 AM - 5:00 PM

(A request for 16
hours PGI/PGH is
in review.)

**Triple R
Curriculum
Retreat: Reflect, Review,
Revise**

***Keynote and workshops by Dr. Regina
Stanback Stroud, President Emerita of San
Mateo County CCD**

Questions? Contact
Tiffany Kuo
tiffany.kuo@mtsac.edu
or Dianne Rowley
drowley@mtsac.edu

**Pacific Palms
Resort &
Conference Center**

City of Industry

One night's lodging is
provided for faculty who opt
to stay overnight.

Complete Your 5-Year Curriculum Revisions over Winter

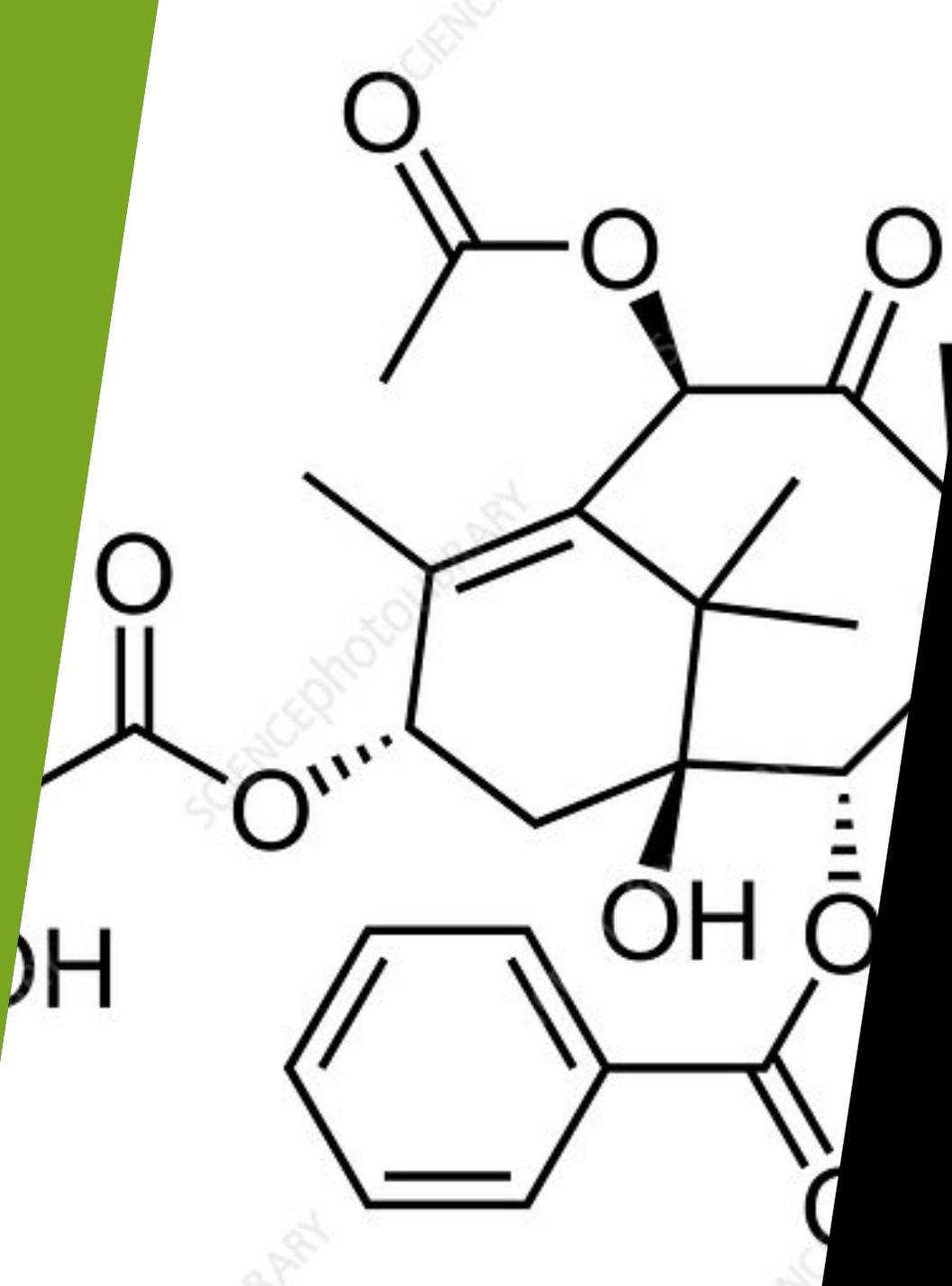
- Collaborate with your colleagues
- Learn about equity-minded curriculum
- Discover your course-level data
- Update outcomes

Data
Coaching
Contact
Information

Tiffany Kuo, Data Coach
Coordinator,
tiffany.kuo@mtsac.edu

Cara Tan, Humanities Data Coach,
ctan51@mtsac.edu

Data Coaching weekly office hours
to begin January, check POD
calendar



Chemistry Equity Data

Friday, February 3, 2023

Preliminary questions

- ▶ Do you know the overall Chemistry course success equity gap between Mt SAC's two largest race/ethnic groups (Latinx and Asian)?
- ▶ And, between Asian and Black/African American?
- ▶ Have you seen your own course-level disaggregated data?
- ▶ What effective strategies have you used to close the equity gaps?

Contents

- ▶ Definition of Terms
- ▶ 2021-22 Headcount Comparison
- ▶ Course Success Rates Comparison 2021-2022
- ▶ Course Retention Rates Comparison 2021-2022
- ▶ CHEM 10: Chemistry for Allied Health Majors [2017-18 to 2021-22 5-year comparison]
- ▶ CHEM 40: Intro Gen Chem [5-year comparison]
- ▶ CHEM 50: Gen Chem I [5-year comparison]
- ▶ CHEM 51: Gen Chem II [5-year comparison]
- ▶ CHEM 80: O Chem I [5-year comparison]

ENROLLMENT GRADES, SUCCESS RATE, AND RETENTION RATE

Enrollment Grades

A = Received a letter grade of "A"
B = Received a letter grade of "B"
C = Received a letter grade of "C"
D = Received a letter grade of "D"
F = Failing (in a letter graded course)
P = Pass
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FW = Withdrawn without permission & without having achieved a final pass grade
W = Withdrew (after last day to drop)
DR = Drop, on or after first census date and before withdraw date
EW = Excused Withdrawal
MW = Military Withdrawal

Success Rate Formula

Success rate including students who received EW

of students receiving A, B, C, P, IA, IB, IC, IPP

Total course enrollment + EW

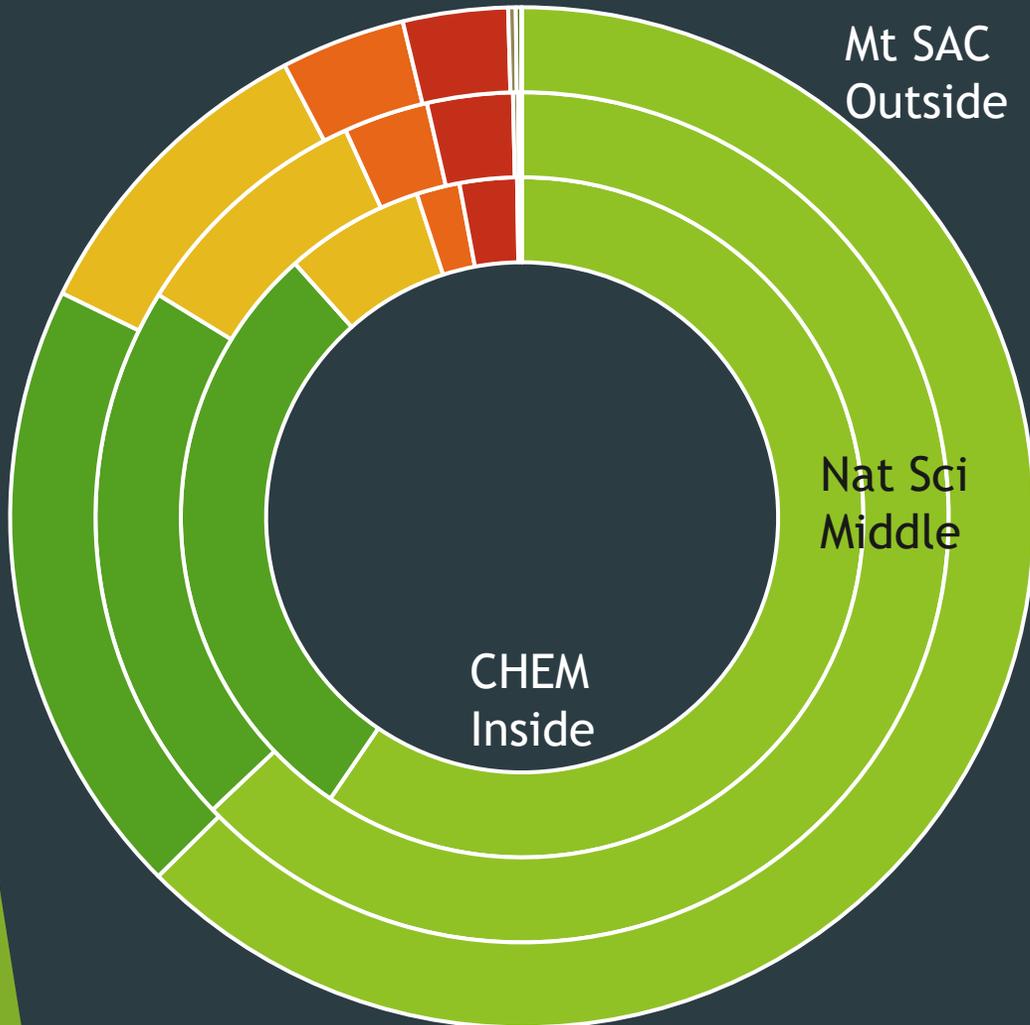
Retention Rate Formula

Retention rate including students who received EW

of students receiving A, B, C, D, F, P, NP, I*, IPP, INP

Total course enrollment + EW

2021-2022 Headcount Comparison

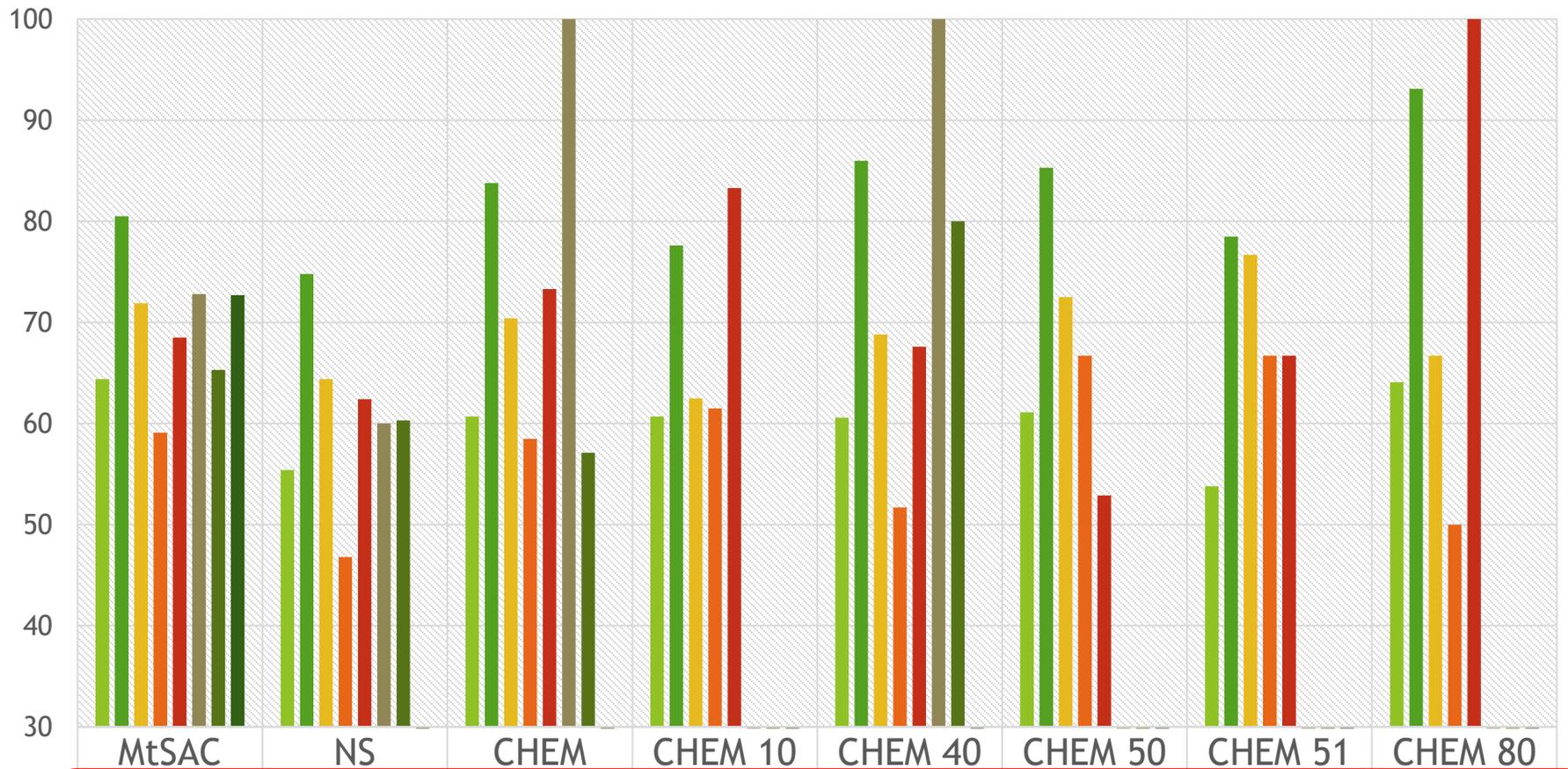


	CHEM		NS		Mt SAC	
Latinx	1776	59.50%	11830	62.92%	22893	62.58%
Asian	863	28.91%	3919	20.84%	7193	19.66%
White	197	6.60%	1776	9.45%	3689	10.08%
Black/Af-Am	61	2.04%	602	3.20%	1436	3.93%
Two or More	81	2.71%	610	3.24%	1212	3.31%
NaHawaiian/ Other Pac Is	6	0.20%	36	0.19%	87	0.24%
Am Indian/Alaska Native	1	0.03%	28	0.15%	62	0.17%
Unreported	0	0.00%	0	0.00%	10	0.03%
Total	2985		18801		36582	

2021-22 Success Rates EW Included

Y-axis adjusted to display from 30% to 100%

Numbers in red indicate equity gap differences between Asian and Latinx, or Asian and Black/Af-Am

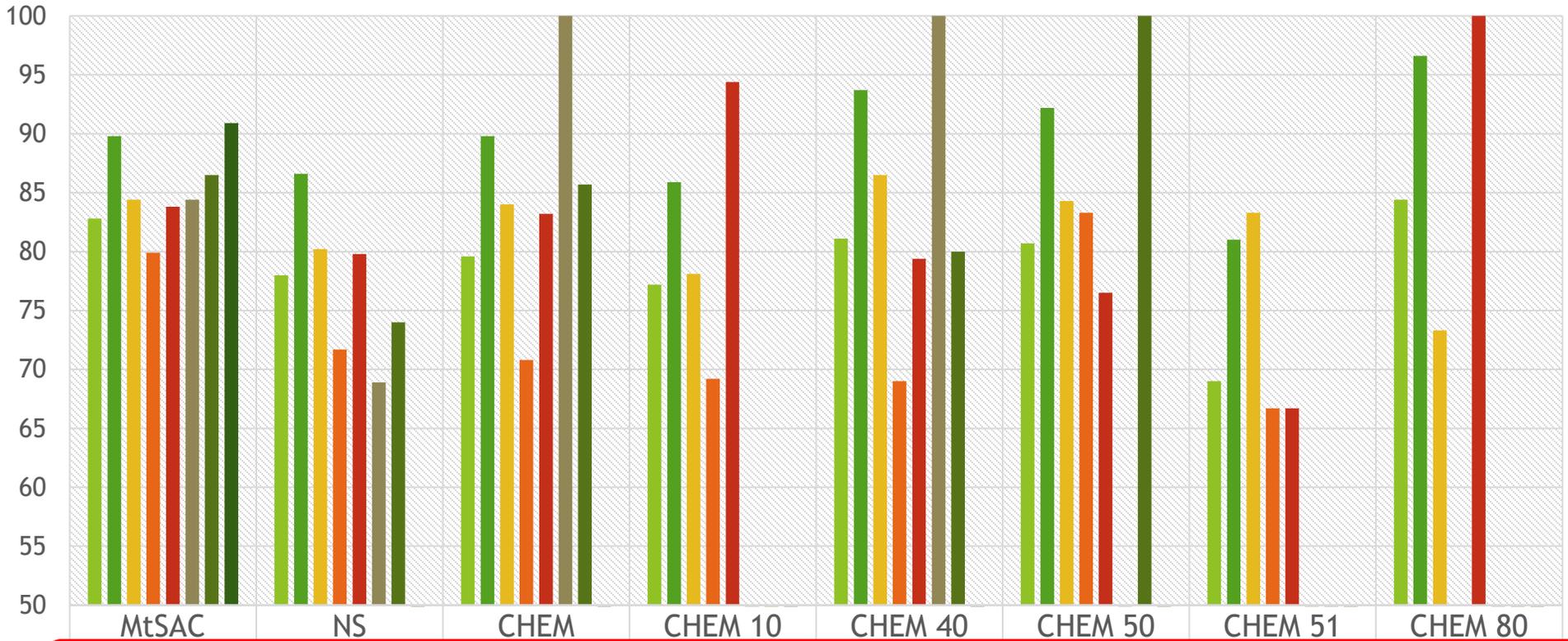


	MtSAC	NS	CHEM	CHEM 10	CHEM 40	CHEM 50	CHEM 51	CHEM 80
Latinx	64.4	55.4	60.7	60.7	60.6	61.1	53.8	64.1
Asian	80.5	74.8	83.8	77.6	86	85.3	78.5	93.1
White	71.9	64.4	70.4	62.5	68.8	72.5	76.7	66.7
Black/Af-Am	59.1	46.8	58.5	61.5	51.7	66.7	66.7	50
Two or More	68.5	62.4	73.3	83.3	67.6	52.9	66.7	100
Am Indian/Alaska Native	72.8	60	100	0	100	0	0	0
NaHawaiian/Other Pac Is	65.3	60.3	57.1	0	80	0	0	0
Unreported	72.7	0	0	0	0	0	0	0

2021-22 Retention Rates EW Included

Y-axis adjusted to display from 50% to 100%

Numbers in red indicate equity gap differences between Asian and Latinx, or Asian and Black/Af-Am



	MtSAC	NS	CHEM	CHEM 10	CHEM 40	CHEM 50	CHEM 51	CHEM 80
Latinx	82.8	78	79.6	77.2	81.1	80.7	69	84.4
Asian	89.8	86.6	89.8	85.9	93.7	92.2	81	96.6
White	84.4	80.2	84	78.1	86.5	84.3	83.3	73.3
Black/Af-Am	79.9	71.7	70.8	69.2	69	83.3	66.7	50
Two or More	83.8	79.8	83.2	94.4	79.4	76.5	66.7	100
Am Indian/Alaska Native	84.4	68.9	100	0	100	0	0	0
NaHawaiian/Other Pac Is	86.5	74	85.7	0	80	100	0	0
Unreported	90.9	0	0	0	0	0	0	0

Equity gap differences (Asian - Latinx): 7.0, 8.6, 10.2, 8.7, 12.6, 11.5, 12, 12.2

Equity gap differences (Asian - Black/Af-Am): 9.9, 14.9, 19, 16.7, 24.7, 8.9, 14.3, 46.6

CHEM 10 Success Rates

EW included

5-year
Comparison

Academic Year	2017-2018		2018-2019		2019-2020		2020-2021		2021-2022	
Ethnicity + Gender	Enrollments	Success Rates								
⊖ American Indian or Alaska Native	1	100.0%					1	100.0%		
F	1	100.0%					1	100.0%		
⊖ Asian	205	84.9%	154	85.1%	163	89.6%	211	82.9%	170	77.6%
F	129	87.6%	104	89.4%	107	91.6%	135	85.2%	117	79.5%
M	72	80.6%	48	75.0%	54	85.2%	72	77.8%	52	73.1%
N	4	75.0%	2	100.0%	2	100.0%	4	100.0%	1	100.0%
⊖ Black or African American	16	68.8%	16	75.0%	18	55.6%	18	72.2%	13	61.5%
F	13	76.9%	11	72.7%	14	50.0%	16	68.8%	8	62.5%
M	3	33.3%	5	80.0%	4	75.0%	2	100.0%	4	50.0%
N									1	100.0%
⊖ Hispanic, Latino	457	70.0%	397	69.3%	464	65.7%	474	64.8%	539	60.7%
F	335	70.1%	306	68.3%	347	65.1%	383	63.7%	419	58.9%
M	115	68.7%	85	72.9%	110	68.2%	83	72.3%	112	68.8%
N	7	85.7%	6	66.7%	7	57.1%	8	37.5%	8	37.5%
⊖ Native Hawaiian or Other Pacific Islander					1	100.0%	3	33.3%		
F					1	100.0%	2	50.0%		
M							1	0.0%		
⊖ Two or More Races	31	67.7%	27	81.5%	18	88.9%	12	75.0%	18	83.3%
F	12	58.3%	16	87.5%	14	85.7%	9	66.7%	12	83.3%
M	18	72.2%	11	72.7%	4	100.0%	3	100.0%	5	80.0%
N	1	100.0%							1	100.0%
⊖ Unreported	1	0.0%	2	50.0%						
F	1	0.0%	1	0.0%						
N			1	100.0%						
⊖ White	70	65.7%	40	82.5%	67	82.1%	39	64.1%	32	62.5%
F	55	63.6%	35	82.9%	50	84.0%	32	68.8%	21	71.4%
M	15	73.3%	5	80.0%	16	81.3%	7	42.9%	10	40.0%
N					1	0.0%			1	100.0%
Total	781	73.4%	636	74.5%	731	72.9%	758	70.1%	772	65.0%

CHEM 40 Success Rates

EW included

Academic Year	2017-2018		2018-2019		2019-2020		2020-2021		2021-2022	
Ethnicity + Gender	Enrollments	Success Rates								
⊖ American Indian or Alaska Native			4	50.0%	1	100.0%			1	100.0%
F			4	50.0%	1	100.0%			1	100.0%
⊖ Asian	342	87.7%	315	84.4%	352	83.0%	359	86.9%	350	86.0%
F	151	90.1%	152	84.2%	169	87.6%	196	86.7%	174	86.8%
M	187	86.1%	159	84.3%	181	78.5%	159	87.4%	171	85.4%
N	4	75.0%	4	100.0%	2	100.0%	4	75.0%	5	80.0%
⊖ Black or African American	16	68.8%	29	48.3%	27	44.4%	48	52.1%	29	51.7%
F	7	42.9%	19	52.6%	19	42.1%	35	54.3%	16	68.8%
M	9	88.9%	10	40.0%	8	50.0%	12	50.0%	13	30.8%
N							1	0.0%		
⊖ Hispanic, Latino	681	65.9%	792	62.5%	787	60.9%	810	66.8%	815	60.6%
F	368	65.2%	407	60.4%	417	65.5%	497	66.2%	458	59.4%
M	302	66.6%	376	64.9%	360	55.3%	305	68.2%	351	62.7%
N	11	72.7%	9	55.6%	10	70.0%	8	50.0%	6	33.3%
⊖ Native Hawaiian or Other Pacific Islander	3	100.0%	4	75.0%	2	100.0%	1	0.0%	5	80.0%
F	1	100.0%							2	50.0%
M	2	100.0%	4	75.0%	2	100.0%	1	0.0%	3	100.0%
⊖ Two or More Races	33	84.8%	47	76.6%	51	70.6%	49	63.3%	34	67.6%
F	17	76.5%	26	84.6%	32	68.8%	33	69.7%	15	53.3%
M	16	93.8%	20	65.0%	17	76.5%	14	42.9%	19	78.9%
N			1	100.0%	2	50.0%	2	100.0%		
⊖ Unreported	1	100.0%	1	100.0%						
⊖ White	137	75.2%	144	70.1%	132	75.8%	129	76.7%	96	68.8%
F	74	73.0%	69	72.5%	71	81.7%	68	82.4%	49	65.3%
M	62	79.0%	71	69.0%	55	69.1%	56	69.6%	46	73.9%
N	1	0.0%	4	50.0%	6	66.7%	5	80.0%	1	0.0%
Total	1,213	73.8%	1,336	68.7%	1,352	68.2%	1,396	72.2%	1,330	68.0%

CHEM 50 Success Rates

EW included

Academic Year	2017-2018		2018-2019		2019-2020		2020-2021		2021-2022	
Ethnicity + Gender	Enrollments	Success Rates								
⊖ American Indian or Alaska Native	1	100.0%			1	100.0%	2	50.0%		
F					1	100.0%	2	50.0%		
M	1	100.0%								
⊖ Asian	217	80.2%	203	84.7%	227	85.5%	216	85.6%	217	85.3%
F	89	76.4%	78	79.5%	101	78.2%	101	89.1%	106	83.0%
M	123	82.9%	122	87.7%	125	91.2%	113	82.3%	110	87.3%
N	5	80.0%	3	100.0%	1	100.0%	2	100.0%	1	100.0%
⊖ Black or African American	9	66.7%	11	72.7%	9	55.6%	8	50.0%	6	66.7%
F	1	0.0%	3	100.0%	6	33.3%	6	66.7%	4	75.0%
M	8	75.0%	8	62.5%	3	100.0%	2	0.0%	2	50.0%
⊖ Hispanic, Latino	319	67.7%	331	70.4%	365	63.8%	350	66.0%	347	61.1%
F	139	66.2%	171	71.3%	185	61.6%	194	66.5%	189	62.4%
M	176	69.9%	152	69.1%	177	66.1%	153	65.4%	153	59.5%
N	4	25.0%	8	75.0%	3	66.7%	3	66.7%	5	60.0%
⊖ Native Hawaiian or Other Pacific Islander			2	50.0%	2	100.0%			1	0.0%
F			1	0.0%						
M			1	100.0%	2	100.0%			1	0.0%
⊖ Two or More Races	17	76.5%	13	76.9%	22	81.8%	22	68.2%	17	52.9%
F	6	66.7%	10	70.0%	12	83.3%	11	72.7%	8	50.0%
M	11	81.8%	2	100.0%	10	80.0%	11	63.6%	8	62.5%
N			1	100.0%					1	0.0%
⊕ Unreported			2	100.0%						
⊖ White	74	74.3%	76	80.3%	69	68.1%	78	75.6%	51	72.5%
F	35	71.4%	31	90.3%	34	70.6%	46	78.3%	18	61.1%
M	38	78.9%	43	74.4%	32	68.8%	28	75.0%	31	80.6%
N	1	0.0%	2	50.0%	3	33.3%	4	50.0%	2	50.0%
Total	637	73.0%	638	76.3%	695	71.9%	676	73.2%	639	70.0%

CHEM 51 Success Rates

EW included

Academic Year	2017-2018		2018-2019		2019-2020		2020-2021		2021-2022	
Ethnicity + Gender	Enrollments	Success Rates								
⊖ American Indian or Alaska Native	1	100.0%								
M	1	100.0%								
⊖ Asian	135	82.2%	142	78.2%	148	69.6%	150	75.3%	121	78.5%
F	61	80.3%	67	76.1%	61	75.4%	82	72.0%	58	89.7%
M	73	83.6%	75	80.0%	85	67.1%	65	78.5%	63	68.3%
N	1	100.0%			2	0.0%	3	100.0%		
⊖ Black or African American	4	50.0%	8	75.0%	8	50.0%	3	100.0%	3	66.7%
F	2	100.0%	2	100.0%	5	40.0%	2	100.0%	2	100.0%
M	2	0.0%	6	66.7%	3	66.7%	1	100.0%	1	0.0%
⊖ Hispanic, Latino	186	63.4%	205	66.3%	182	47.3%	218	53.7%	158	53.8%
F	99	61.6%	123	69.1%	105	50.5%	133	55.6%	87	54.0%
M	87	65.5%	79	63.3%	76	43.4%	84	51.2%	69	53.6%
N			3	33.3%	1	0.0%	1	0.0%	2	50.0%
⊖ Native Hawaiian or Other Pacific Islander			1	100.0%			1	100.0%		
M			1	100.0%			1	100.0%		
⊖ Two or More Races	8	87.5%	12	66.7%	13	69.2%	22	81.8%	9	66.7%
F	3	100.0%	7	57.1%	8	87.5%	10	80.0%	5	60.0%
M	5	80.0%	5	80.0%	4	50.0%	12	83.3%	4	75.0%
N					1	0.0%				
⊖ Unreported	1	100.0%								
M	1	100.0%								
⊖ White	40	77.5%	55	65.5%	43	76.7%	42	64.3%	30	76.7%
F	18	88.9%	25	64.0%	23	82.6%	25	68.0%	13	84.6%
M	20	70.0%	29	69.0%	19	73.7%	15	60.0%	16	68.8%
N	2	50.0%	1	0.0%	1	0.0%	2	50.0%	1	100.0%
Total	375	72.3%	423	70.4%	394	59.6%	436	64.0%	321	65.7%

CHEM 80 Success Rates

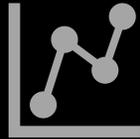
EW included

Academic Year	2017-2018		2018-2019		2019-2020		2020-2021		2021-2022	
Ethnicity + Gender	Enrollments	Success Rates								
⊖ American Indian or Alaska Native							3	33.3%		
F							1	0.0%		
M							2	50.0%		
⊖ Asian	104	78.8%	90	86.7%	88	86.4%	77	79.2%	58	93.1%
F	63	76.2%	49	83.7%	50	88.0%	45	80.0%	37	94.6%
M	40	85.0%	41	90.2%	38	84.2%	32	78.1%	21	90.5%
N	1	0.0%								
⊖ Black or African American	1	100.0%	8	87.5%	5	100.0%	9	55.6%	2	50.0%
F	1	100.0%	6	100.0%	2	100.0%	6	50.0%	2	50.0%
M			2	50.0%	3	100.0%	3	66.7%		
⊖ Hispanic, Latino	87	79.3%	86	66.3%	84	76.2%	82	54.9%	64	64.1%
F	47	83.0%	50	70.0%	52	75.0%	53	54.7%	36	69.4%
M	39	74.4%	36	61.1%	32	78.1%	29	55.2%	28	57.1%
N	1	100.0%								
⊖ Native Hawaiian or Other Pacific Islander					1	0.0%				
M					1	0.0%				
⊖ Two or More Races	3	100.0%	8	62.5%	7	57.1%	14	35.7%	6	100.0%
F	1	100.0%	5	60.0%	5	40.0%	9	44.4%	3	100.0%
M	2	100.0%	3	66.7%	2	100.0%	5	20.0%	3	100.0%
⊖ Unreported			2	100.0%						
M			1	100.0%						
N			1	100.0%						
⊖ White	18	83.3%	26	80.8%	23	87.0%	24	83.3%	15	66.7%
F	9	88.9%	12	66.7%	15	80.0%	17	82.4%	7	71.4%
M	8	75.0%	14	92.9%	8	100.0%	6	100.0%	7	71.4%
N	1	100.0%					1	0.0%	1	0.0%
Total	213	79.8%	220	77.3%	208	81.3%	209	65.6%	145	77.2%

Discussion



Were there any surprising data?



Do you see trends?



E-mail tiffany.kuo@mtsac.edu to obtain your own course-level disaggregated data.